

Title (en)  
Method and device for handling wastewater

Title (de)  
Verfahren und Vorrichtung zur Behandlung von Abwasser

Title (fr)  
Procédé et dispositif destinés au traitement d'eaux usées

Publication  
**EP 1854766 B1 20090211 (DE)**

Application  
**EP 07008482 A 20070426**

Priority  
DE 102006021922 A 20060511

Abstract (en)  
[origin: EP1854766A1] The method for treating wastewater from a preclarifier, comprises loading a treatment basin (2) with the wastewater enriched with activated sludge, intermixing and aerating the activated sludge/water mixture, sedimenting the activated sludge in the treatment basin, discharging the clarified supernatant water after the sedimentation up to a predetermined minimum water level WS 2, further intermixing the activated sludge/water mixture and feeding back of a part of the mixed activated sludge/water mixture into the preclarifier. The method for treating wastewater from a preclarifier, comprises loading a treatment basin (2) with the wastewater enriched with activated sludge, intermixing and aerating the activated sludge/water mixture, sedimenting the activated sludge in the treatment basin, discharging the clarified supernatant water after the sedimentation up to a predetermined minimum water level WS 2, further intermixing the activated sludge/water mixture and feeding back of a part of the mixed activated sludge/water mixture into the preclarifier. While reaching/exceeding a predetermined water level WS 1 in the treatment basin, a first flow path between the treatment basin and an outlet pipe for the clarified water discharge is opened by a lifting element, and by exceeding the predetermined minimum water level, the pumping process is interrupted according to the discharge of the clarified supernatant water and through this a second flow path between the treatment basin and primary sedimentation device for feeding back of the part of the mixture is opened. During the process steps intermixing (b) and sedimentation (d) up to feeding back (g) of the part of the mixture, only the purification cycle is carried out, if the water level in the treatment basin exceeds a certain threshold value according to the intermixing, and the aeration is carried out over a given period of intermittent. An independent claim is included for a device for the treatment of wastewater.

IPC 8 full level  
**C02F 3/12** (2006.01); **C02F 3/30** (2006.01)

CPC (source: EP)  
**C02F 3/1247** (2013.01); **C02F 3/1263** (2013.01); **C02F 3/302** (2013.01); **C02F 3/286** (2013.01); **C02F 3/301** (2013.01); **C02F 2209/42** (2013.01); **Y02A 20/208** (2018.01); **Y02W 10/10** (2015.05)

Cited by  
CN107459131A; CN112337144A

Designated contracting state (EPC)  
AT CZ DE HU PL

DOCDB simple family (publication)  
**EP 1854766 A1 20071114**; **EP 1854766 B1 20090211**; AT E422487 T1 20090215; DE 102006021922 A1 20071115;  
DE 502007000425 D1 20090326

DOCDB simple family (application)  
**EP 07008482 A 20070426**; AT 07008482 T 20070426; DE 102006021922 A 20060511; DE 502007000425 T 20070426